

SEQUENCE LISTING

<110> Isis Pharmaceuticals Inc.
Rosanne M. Crooke
Mark J. Graham
Kristina M. Lemonidis
Kenneth W. Dobie

<120> MODULATION OF APOLIPOPROTEIN C-III EXPRESSION

<130> BIOL0004WO

<150> US 10/418,780

<151> 2003-04-16

<160> 468

<210> 1

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 1

tccgtcatcg ctctcaggg

20

<210> 2

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 2

gtgcgcgcga . gcccgaatc

20

<210> 3

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 3

atgcattctg cccccaagga

20

<210> 4

<211> 3958

<212> DNA

<213> H. sapiens

<220>

<400> 4
ctactccagg ctgtgttcag ggcttggggc tgggtggaggg aggggcctga aattccagtg 60
tgaaaggctg agatggggcc gagggccctg gcctatgtcc aagccatttc ccctctcacc 120
agcctctccc tggggagcca gtcagctagg aaggaatgag ggctccccag gccaccccc 180
agttcctgag ctcatctggg ctgcagggct ggcgggacag cagcgtggac tcagtctcct 240
agggatttcc caactctccc gcccgcttgc tgcattctgga caccctgcct caggccctca 300
tctccactgg tcagcaggtg acctttgccc agcgccctgg gtcctcagtg cctgctgccc 360
tgagatgat ataaaacagg tcagaaccct cctgcctgtc tgctcagttc atccctagag 420
gcagctgctc caggtaatgc cctctgggga ggggaaagag gaggggagga ggatgaagag 480
gggcaagagg agctccctgc ccagcccagc cagcaagcct ggagaagcac ttgctagagc 540
taaggaagcc tcggagctgg acgggtgccc cccaccctc atcataacct gaagaacatg 600
gagggccggg aggggtgtca cttgccc aaa gctacatagg ggggtggggct ggaagtggct 660
ccaagtgcag gttccccct cattcttcag gcttagggct ggaggaagcc ttagacagcc 720
cagtcctacc ccagacaggg aaactgaggg ctggagaggg ccagaaatca ccaaagaca 780
cacagcatgt tggctggact ggacggagat cagtccagac cgcaggtgcc ttgatgttca 840
gtctggtggg ttttctgtc catcccacc acctccctt gggcctcgat ccctcgcccc 900
tcaccagtcc cccttctgag agcccgatc agcagggagc cggcccctac tccttctggc 960
agaccagct aaggttctac cttaggggcc acgccacct cccagggagg ggtccagagg 1020
catggggacc tggggtgccc ctcacaggac acttccttgc aggaacagag gtgccatgca 1080
gccccgggta ctcttgttg ttgccctct ggcgtcctg gcctctgccc gtaagcactt 1140
gggtgggactg ggctgggggc aggggtggagg caacttgggg atcccagtcc caatgggtgg 1200
tcaagcagga gccagggct cgtccatagg ccgatccacc cactcagcc ctgctcttcc 1260
ctcaggagct tcagaggccg aggatgcct ccttctcagc ttcatgcagg gctacatgaa 1320
gcacgccacc aagaccgcca aggatgcact gagcagcgtg caggagtccc aggtggccca 1380
gcaggccagg tacaccgct ggctccctc cccatcccc ctgccagctg cctccattcc 1440
caccaccccc tgcctggtg agatcccaac aatggaatgg aggtgctcca gcctccctg 1500
ggcctgtgcc tcttcagcct cctctttcct cacagggcct ttgtcaggct gctgcgggag 1560
agatgacaga gttgagactg cattcctccc aggtccctcc tttctccca gagcagtcct 1620
agggcgcgcc gttttagccc tcatttccat tttccttcc tttcccttcc tttcccttcc 1680
tatttcttcc tttcttctt tcttcttctc tttcttctt tcttcttctc tttcttctt 1740
tcttcttctc ctttcttctt ttcttcttct ctttcttctt tcttcttctt tcttcttctt 1800

tctttcttttc	tttccttttt	ctttctttcc	ctctcttcc	ttctctcttt	ctttcttctt	1860
cttttttttt	taatggagtc	tccctctgtc	accagggctg	gagtgcagtg	gtgccatctc	1920
ggctcactgc	aacctccgtc	tcccgggttc	aaccattct	cctgcctcag	cctcccaagt	1980
agctgggatt	acaggcacgc	gccaccacac	ccagctaatt	tttgatattt	tagcagagat	2040
ggggtttcac	catgttggtc	agggttggtc	tgaattcctg	acctcagggg	atcctcctgc	2100
ctcggcctcc	caaagcgtg	ggattacagg	catgagccac	tgcgcctggc	cccattttcc	2160
ttttctgaag	gtctggctag	agcagtggtc	ctcagccttt	ttggcaccag	ggaccagttt	2220
tgtggtggac	aattttttcca	tgggccagcg	gggatgggtt	tgggatgaag	ctgttccacc	2280
tcagatcatc	aggcattaga	ttctcataag	gagccctcca	cctagatccc	tggcatgtgc	2340
agttcacaac	agggttcaca	ctcctatgag	aatgtaaggc	cacttgatct	gacaggaggc	2400
ggagctcagg	cggatttgct	cactcaccca	ccactcactt	cgtgctgtgc	agcccggctc	2460
ctaacagtcc	atggaccagt	acctatctat	gacttggggg	ttggggaccc	ctgggctagg	2520
ggtttgctt	gggaggcccc	acctgacctt	attcaagccc	gtgagtgtct	ctgctttgtt	2580
ctaagacctg	gggccagtgt	gagcagaagt	gtgtccttcc	tctcccatcc	tgcccctgcc	2640
catcagtact	ctcctctccc	ctactccctt	ctccacctca	ccctgactgg	cattagctgg	2700
catagcagag	gtgttcataa	acattcttag	tccccagaac	cggctttggg	gtagggtgta	2760
ttttctcact	ttgcagatga	gaaaattgag	gctcagagcg	attaggtgac	ctgccccaga	2820
tcacacaact	aatcaatcct	ccaatgactt	tccaaatgag	aggctgcctc	cctctgtcct	2880
accctgctca	gagccaccag	gttgtgcaac	tccaggcggg	gctgtttgca	cagaaaacaa	2940
tgacagcctt	gacctttcac	atctccccac	cctgtcactt	tgtgcctcag	gcccaggggc	3000
ataaacatct	gaggtgacct	ggagatggca	gggtttgact	tgtgctgggg	ttcctgcaag	3060
gatattctct	ctcccagggt	ggcagctgtg	ggggattcct	gcctgaggtc	tcagggtgtg	3120
cgtccagtga	agttgagagg	gtggtgtggg	cctgactggg	gtcgtccagt	ggggacatgg	3180
gtgtgggtcc	catggttgcc	tacagaggag	ttctcatgcc	ctgctctgtt	gcttcccctg	3240
actgatttag	gggctgggtg	accgatggct	tcagttccct	gaaagactac	tggagcaccg	3300
ttaaggacaa	gttctctgag	ttctgggatt	tggaccctga	ggtcagacca	acttcagccg	3360
tggctgcctg	agacctcaat	acccaagtc	cacctgccta	tccatcctgc	cagctccttg	3420
ggctctgcaa	tctccagggc	tgccctgtga	ggttgcttaa	aaggacagt	attctcagtg	3480
ctctctacc	ccacctcatg	cctggcccc	ctccaggcat	gctggcctcc	caataaagct	3540
ggacaagaag	ctgctatgag	tgggccgtcg	caagtgtgcc	atctgtgtct	gggcatggga	3600

aagggccgag gctgttctgt ggggtgggcac tggacagact ccaggtcagg caggcatgga 3660
ggccagcgct ctatccacct tctggtagct gggcagtcctc tgggcctcag tttcttcatc 3720
tctaaggtag gaatcaccct ccgtaccctg ccttccttga cagctttgtg cggaagggtca 3780
aacaggacaa taagtttgct gatactttga taaactgtta ggtgctgcac aacatgactt 3840
gagtgtgtgc cccatgccag ccactatgcc tggcacttaa gttgtcatca gagttgagac 3900
tgtgtgtgtt tactcaaaac tgtggagctg acctccccta tccaggccac ctagccct 3958

<210> 5
<211> 22
<212> DNA
<213> Artificial Sequence

<220>

<223> PCR Primer

<400> 5
tcagcttcat gcagggttac at 22

<210> 6
<211> 19
<212> DNA
<213> Artificial Sequence

<220>

<223> PCR Primer

<400> 6
acgctgctca gtgcatcct 19

<210> 7
<211> 21
<212> DNA
<213> Artificial Sequence

<220>

<223> PCR Probe

<400> 7
aagcacgcca ccaagaccgc c 21

<210> 8
<211> 19
<212> DNA
<213> Artificial Sequence

<220>

<223> PCR Primer

<400> 8
gaaggtgaag gtcggagtc 19

<210> 9
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> PCR Primer

<400> 9
gaagatgggtg atgggatttc 20

<210> 10
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> PCR Probe

<400> 10
caagcttccc gttctcagcc 20

<210> 11
<211> 518
<212> DNA
<213> M. musculus

<220>

<400> 11
cctgctcagt tttatcccta gaagcagcta gctactccag gtacgtaggt gccatgcagc 60
cccgagcgct cctcactgtg gccctcttgg ctctcctggc atctgcccga gctgaagagg 120
tagagggatc cttgctgctg ggctctgtgc agggctacat ggaacaagcc tccaagacgg 180
tccaggatgc gctaagtagc gtgcaggagt ccgatatagc tgcggtggcc aggggctgga 240
tggacaatca cttcagattc ctgaaaggct actggagcaa gtttactgac aagttcaccg 300
gcttctggga ttctaaccct gaggaccaac caactccagc tattgagtcg tgagacttct 360
gtgttgacaga tgtgcctgtt cctccatcct gctgcccccc tccaggcctg ccagggtggc 420
cctgaagggt gctttaagg gaaagtatgt tctcatgtct tcacccctcc ctagatctca 480
cctaaacatg ctgtccctaa taaagctgga taagaagc 518

<210> 12
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> PCR Primer

<400> 12

tgcagggcta catggaacaa

20

<210> 13

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR Primer

<400> 13

cggactcctg cacgctactt

20

<210> 14

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR Probe

<400> 14

ctccaagacg gtccaggatg cgc

23

<210> 15

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR Primer

<400> 15

ggcaaattca acggcacagt

20

<210> 16

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR Primer

<400> 16

gggtctcgct cctggaagat

20

```
<210> 17
<211> 27
<212> DNA
<213> Artificial Sequence
```

<220>

<223> PCR Probe

<400> 17
aagqccqaga atgggaagct tgtcatc

27

```
<210> 18
<211> 533
<212> DNA
<213> H. sapiens
```

<220>

```
<221> CDS
<222> (47) . . . (346)
```

<400> 18
tgctcagttc atcctagag gcagctgctc caggaacaga ggtgcc atg cag ccc 55
Met Gln Pro
1

cgg gta ctc ctt gtt gtt gcc ctc ctg gcg ctc ctg gcc tct gcc cga 103
Arg Val Leu Leu Val Val Ala Leu Leu Ala Leu Leu Ala Ser Ala Arg
5 10 15

gct tca gag gcc gag gat gcc tcc ctt ctc agc ttc atg cag ggt tac 151
Ala Ser Glu Ala Glu Asp Ala Ser Leu Leu Ser Phe Met Gln Gly Tyr
20 25 30 35

atg aag cac gcc acc aag acc gcc aag gat gca ctg agc agc gtg cag 199
Met Lys His Ala Thr Lys Thr Ala Lys Asp Ala Leu Ser Ser Val Gln
40 45 50

gag tcc cag gtg gcc cag cag gcc agg ggc tgg gtg acc gat ggc ttc 247
Glu Ser Gln Val Ala Gln Gln Ala Arg Gly Trp Val Thr Asp Gly Phe
55 60 65

agt tcc ctg aaa gac tac tgg agc acc gtt aag gac aag ttc tct gag 295
Ser Ser Leu Lys Asp Tyr Trp Ser Thr Val Lys Asp Lys Phe Ser Glu
70 75 80

ttc tgg gat ttg gac cct gag gtc aga cca act tca gcc gtg gct gcc 343
Phe Trp Asp Leu Asp Pro Glu Val Arg Pro Thr Ser Ala Val Ala Ala
85 90 95

tga gacctcaata ccccaagtcc acctgcctat ccatcctgcg agctccttgg 396

gtcctgcaat ctccagggct gcccctgtag gttgcttaaa agggacagta ttctcagtgc 456

tctcctaccc cacctcatgc ctggccccc tccaggcatg ctggcctccc aataaagctg 516

gacaagaagc tgctatg 533

<210> 19
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 19
ctggagcagc tgcctctagg 20

<210> 20
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 20
ccctgcatga agctgagaag 20

<210> 21
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 21
gtgcttcatg taaccctgca 20

<210> 22
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 22
tggcctgctg ggccacctgg 20

<210> 23
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 23
tgctccagta gtcttttcagg 20

<210> 24
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 24
tgacctcagg gtccaaatcc 20

<210> 25
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 25
ctctagggat gaactgagca 20

<210> 26
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 26
cagctgcctc tagggatgaa 20

<210> 27
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 27
ttcctggagc agctgcctct 20

<210> 28
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 28

acctctgttc ctggagcagc

20

<210> 29

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 29

atggcacctc tggtcctgga

20

<210> 30

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 30

gggctgcatg gcacctctgt

20

<210> 31

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 31

ggcaacaaca aggagtaccc

20

<210> 32

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 32

ggagggcaac aacaaggagt

20

<210> 33
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 33
agctcgggca gaggccagga

20

<210> 34
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 34
tctgaagctc gggcagaggc

20

<210> 35
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 35
cggcctctga agctcgggca

20

<210> 36
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 36
catcctcggc ctctgaagct

20

<210> 37
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 37
gggaggcatc ctcggcctct

20

<210> 38
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 38
gagaagggag gcatcctcgg

20

<210> 39
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 39
gctgagaagg gaggcacct

20

<210> 40
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 40
tgcatgaagc tgagaaggga

20

<210> 41
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 41
gcgtgcttca tgtaaccctg

20

<210> 42
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 42
ttggtggcgt gcttcattgta

20

<210> 43
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 43
gcattccttg cggtcttggt

20

<210> 44
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 44
ctcagtgcat ccttggcgt

20

<210> 45
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 45
tgctcagtc atccttggtg

20

<210> 46
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 46
ctcctgcacg ctgctcagtg

20

<210> 47
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 47

gactcctgca cgctgctcag

20

<210> 48

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 48

gccacctggg actcctgcac

20

<210> 49

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 49

gcccctggcc tgctgggcca

20

<210> 50

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 50

agcccctggc ctgctgggcca

20

<210> 51

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 51

gaagccatcg gtcacccagc

20

<210> 52
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 52
ctgaagccat cggcaccca 20

<210> 53
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 53
tttcagggaa ctgaagccat 20

<210> 54
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 54
cagtagtctt tcaggggaact 20

<210> 55
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 55
aacggtgctc cagtagtctt 20

<210> 56
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 56
ccttaacggt gctccagtag 20

<210> 57
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 57
gaacttgtcc ttaacggtgc 20

<210> 58
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 58
ctcagagaac ttgtccttaa 20

<210> 59
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 59
agaactcaga gaacttgtcc 20

<210> 60
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 60
atcccagaac tcagagaact 20

<210> 61
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 61

cagggtccaa atcccagaac

20

<210> 62

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 62

ttggtctgac ctcagggtcc

20

<210> 63

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 63

gttggtctga cctcagggtc

20

<210> 64

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 64

gctgaagttg gtctgacctc

20

<210> 65

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 65

cagccacggc tgaagttggt

20

<210> 66
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 66
caggcagcca cggctgaagt 20

<210> 67
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 67
attgaggtct caggcagcca 20

<210> 68
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 68
tggataggca ggtggacttg 20

<210> 69
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 69
ctcgcaggat ggataggcag 20

<210> 70
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 70
aggagctcgc aggatggata 20

<210> 71
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 71
gacccaagga gctcgcagga 20

<210> 72
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 72
tgcaggaccc aaggagctcg 20

<210> 73
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 73
tggagattgc aggaccaag 20

<210> 74
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 74
agccctggag attgcaggac 20

<210> 75
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 75

ggcagccctg gagattgcag

20

<210> 76

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 76

ccttttaagc aacctacagg

20

<210> 77

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 77

ctgtcccttt taagcaacct

20

<210> 78

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 78

agaatactgt cccttttaag

20

<210> 79

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 79

cactgagaat actgtccctt

20

<210> 80
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 80
taggagagca ctgagaatac 20

<210> 81
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 81
gggtaggaga gcactgagaa 20

<210> 82
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 82
aggccagcat gcctggaggg 20

<210> 83
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 83
ttgggaggcc agcatgcctg 20

<210> 84
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 84
agctttattg ggaggccagc 20

<210> 85
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 85
tgtccagctt tattgggagg 20

<210> 86
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 86
cttgtccagc tttattggga 20

<210> 87
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 87
agcttcttgt ccagctttat 20

<210> 88
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 88
catagcagct tcttgtccag 20

<210> 89
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 89

acctggagca gctgcctcta

20

<210> 90

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 90

agggcattac ctggagcagc

20

<210> 91

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 91

acctctgttc ctgcaaggaa

20

<210> 92

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 92

aagtgccttac gggcagaggc

20

<210> 93

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 93

gcgggtgtac ctggcctgct

20

<210> 94
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 94
aaccctgttg tgaactgcac

20

<210> 95
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 95
agtgagcaat accgcctgag

20

<210> 96
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 96
cgggcttgaa ttaggtcagg

20

<210> 97
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 97
tagggataaaa actgagcagg

20

<210> 98
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 98
ctggagtagc tagctgcttc

20

<210> 99
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 99
gctgcatggc acctacgtac

20

<210> 100
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 100
ccacagtggc gagcgtccgg

20

<210> 101
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 101
ggcagatgcc aggagagcca

20

<210> 102
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 102
ctacctcttc agctcgggca

20

<210> 103
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 103

cagcagcaag gatccctcta

20

<210> 104

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 104

gcacagagcc cagcagcaag

20

<210> 105

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 105

ccctggccac cgcagctata

20

<210> 106

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 106

atctgaagtg attgtccatc

20

<210> 107

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 107

agtagccttt caggaatctg

20

<210> 108
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 108
cttgtcagta aacttgctcc 20

<210> 109
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 109
gaagccggtg aacttgctcag 20

<210> 110
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 110
gaatcccaga agccggtgaa 20

<210> 111
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 111
ggttagaatc ccagaagccg 20

<210> 112
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 112
tggagttggt tggtcctcag 20

<210> 113
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 113
tcacgactca atagctggag 20

<210> 114
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 114
cccttaaagc aaccttcagg 20

<210> 115
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 115
agacatgaga acatactttc 20

<210> 116
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 116
catgtttagg tgagatctag 20

<210> 117
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 117

tcttatccag ctttattagg

20

<210> 118

<211> 20

<212> DNA

<213> H. sapiens

<220>

<400> 118

ccuagaggca gcugcuccag

20

<210> 119

<211> 20

<212> DNA

<213> H. sapiens

<220>

<400> 119

cuucucagcu ucaugcaggg

20

<210> 120

<211> 20

<212> DNA

<213> H. sapiens

<220>

<400> 120

ugcagggguu caugaagcac

20

<210> 121

<211> 20

<212> DNA

<213> H. sapiens

<220>

<400> 121

ccagguggcc cagcaggcca

20

<210> 122

<211> 20

<212> DNA

<213> H. sapiens

<220>

<400> 122

ccugaaagac uacuggagca

20

<210> 123
<211> 20
<212> DNA
<213> H. sapiens

<220>

<400> 123
ugcucaguuc aucccuagag

20

<210> 124
<211> 20
<212> DNA
<213> H. sapiens

<220>

<400> 124
agaggcagcu gcuccaggaa

20

<210> 125
<211> 20
<212> DNA
<213> H. sapiens

<220>

<400> 125
gcugcuccag gaacagaggu

20

<210> 126
<211> 20
<212> DNA
<213> H. sapiens

<220>

<400> 126
uccaggaaca gaggugccau

20

<210> 127
<211> 20
<212> DNA
<213> H. sapiens

<220>

<400> 127
acagaggugc caugcagccc

20

<210> 128
<211> 20
<212> DNA
<213> H. sapiens

<220>

<400> 128

ggguacuccu uguuguugcc

20

<210> 129

<211> 20

<212> DNA

<213> H. sapiens

<220>

<400> 129

acuccuuguu guugcccucc

20

<210> 130

<211> 20

<212> DNA

<213> H. sapiens

<220>

<400> 130

uccuggccuc ugcccagacu

20

<210> 131

<211> 20

<212> DNA

<213> H. sapiens

<220>

<400> 131

gccucugccc gagcuucaga

20

<210> 132

<211> 20

<212> DNA

<213> H. sapiens

<220>

<400> 132

agcuucagag gccgaggau

20

<210> 133

<211> 20

<212> DNA

<213> H. sapiens

<220>

<400> 133

agaggccgag gaugccuccc

20

<210> 134
<211> 20
<212> DNA
<213> H. sapiens

<220>

<400> 134
ccgaggaugc cucccuucuc

20

<210> 135
<211> 20
<212> DNA
<213> H. sapiens

<220>

<400> 135
aggauGCCUC ccuucucagc

20

<210> 136
<211> 20
<212> DNA
<213> H. sapiens

<220>

<400> 136
ucccuucua gcuucaugca

20

<210> 137
<211> 20
<212> DNA
<213> H. sapiens

<220>

<400> 137
caggguuaca ugaagcacgc

20

<210> 138
<211> 20
<212> DNA
<213> H. sapiens

<220>

<400> 138
uacaugaagc acgccaccaa

20

<210> 139
<211> 20
<212> DNA
<213> H. sapiens

<220>

<400> 139
accaagaccg ccaaggauhc 20

<210> 140
<211> 20
<212> DNA
<213> H. sapiens

<220>

<400> 140
accgccaagg augcacugag 20

<210> 141
<211> 20
<212> DNA
<213> H. sapiens

<220>

<400> 141
cgccaaggau gcacugagca 20

<210> 142
<211> 20
<212> DNA
<213> H. sapiens

<220>

<400> 142
cacugagcag cgugcaggag 20

<210> 143
<211> 20
<212> DNA
<213> H. sapiens

<220>

<400> 143
cugagcagcg ugcaggaguc 20

<210> 144
<211> 20
<212> DNA
<213> H. sapiens

<220>

<400> 144
gugcaggagu cccagguggc 20

<210> 145
<211> 20
<212> DNA
<213> H. sapiens

<220>

<400> 145
uggcccagca ggccaggggc

20

<210> 146
<211> 20
<212> DNA
<213> H. sapiens

<220>

<400> 146
ggcccagcag gccaggggcu

20

<210> 147
<211> 20
<212> DNA
<213> H. sapiens

<220>

<400> 147
gcugggugac cgauggcuuc

20

<210> 148
<211> 20
<212> DNA
<213> H. sapiens

<220>

<400> 148
ugggugaccg auggcuucag

20

<210> 149
<211> 20
<212> DNA
<213> H. sapiens

<220>

<400> 149
auggcuucag uucccugaaa

20

<210> 150
<211> 20
<212> DNA
<213> H. sapiens

<220>

<400> 150
aagacuacug gagcaccguu

20

<210> 151
<211> 20
<212> DNA
<213> H. sapiens

<220>

<400> 151
cuacuggagc accguuaagg

20

<210> 152
<211> 20
<212> DNA
<213> H. sapiens

<220>

<400> 152
gcaccguuaa ggacaaguuc

20

<210> 153
<211> 20
<212> DNA
<213> H. sapiens

<220>

<400> 153
uuaaggacaa guucucugag

20

<210> 154
<211> 20
<212> DNA
<213> H. sapiens

<220>

<400> 154
ggacaaguuc ucugaguucu

20

<210> 155
<211> 20
<212> DNA
<213> H. sapiens

<220>

<400> 155
guucugggau uuggaccug

20

<210> 156
<211> 20
<212> DNA
<213> H. sapiens

<220>

<400> 156
ggacccugag gucagaccaa

20

<210> 157
<211> 20
<212> DNA
<213> H. sapiens

<220>

<400> 157
gaccugagg ucagaccaac

20

<210> 158
<211> 20
<212> DNA
<213> H. sapiens

<220>

<400> 158
gaggucagac caacuucagc

20

<210> 159
<211> 20
<212> DNA
<213> H. sapiens

<220>

<400> 159
accaacuca gccguggcug

20

<210> 160
<211> 20
<212> DNA
<213> H. sapiens

<220>

<400> 160
acuucagccg uggcugccug

20

<210> 161
<211> 20
<212> DNA
<213> H. sapiens

<220>

<400> 161
uggcugccug agaccucaau

20

<210> 162
<211> 20
<212> DNA
<213> H. sapiens

<220>

<400> 162
caaguccacc ugccuaucca

20

<210> 163
<211> 20
<212> DNA
<213> H. sapiens

<220>

<400> 163
cugccuaucc auccugcgag

20

<210> 164
<211> 20
<212> DNA
<213> H. sapiens

<220>

<400> 164
uauccauccu gcgagcuccu

20

<210> 165
<211> 20
<212> DNA
<213> H. sapiens

<220>

<400> 165
uccugcgagc uccuuggguc

20

<210> 166
<211> 20
<212> DNA
<213> H. sapiens

<220>

<400> 166
cgagcuccuu ggguccugca

20

<210> 167
<211> 20
<212> DNA
<213> H. sapiens

<220>

<400> 167
cuuggguccu gcaaucucca

20

<210> 168
<211> 20
<212> DNA
<213> H. sapiens

<220>

<400> 168
guccugcaau cuccagggcu

20

<210> 169
<211> 20
<212> DNA
<213> H. sapiens

<220>

<400> 169
cugcaaucuc cagggcugcc

20

<210> 170
<211> 20
<212> DNA
<213> H. sapiens

<220>

<400> 170
ccuguagguu gcuuaaaagg

20

<210> 171
<211> 20
<212> DNA
<213> H. sapiens

<220>

<400> 171
agguugcuua aaagggacag

20

<210> 172
<211> 20
<212> DNA
<213> H. sapiens

<220>

<400> 172

cuuaaaaggg acaguaauucu

20

<210> 173

<211> 20

<212> DNA

<213> H. sapiens

<220>

<400> 173

aagggaacagu auucucagug

20

<210> 174

<211> 20

<212> DNA

<213> H. sapiens

<220>

<400> 174

guauucucag ugcucuccua

20

<210> 175

<211> 20

<212> DNA

<213> H. sapiens

<220>

<400> 175

uucucagugc ucuccuaccc

20

<210> 176

<211> 20

<212> DNA

<213> H. sapiens

<220>

<400> 176

cccuccaggc augcuggccu

20

<210> 177

<211> 20

<212> DNA

<213> H. sapiens

<220>

<400> 177

cagggaugcu ggccucccaa

20

<210> 178
<211> 20
<212> DNA
<213> H. sapiens

<220>

<400> 178
gcuggccucc caauaaagcu

20

<210> 179
<211> 20
<212> DNA
<213> H. sapiens

<220>

<400> 179
ccucccaaua aagcuggaca

20

<210> 180
<211> 20
<212> DNA
<213> H. sapiens

<220>

<400> 180
ucccaauaaa gcuggacaag

20

<210> 181
<211> 20
<212> DNA
<213> H. sapiens

<220>

<400> 181
auaaagcugg acaagaagcu

20

<210> 182
<211> 20
<212> DNA
<213> H. sapiens

<220>

<400> 182
cuggacaaga agcugcuaug

20

<210> 183
<211> 20
<212> DNA
<213> H. sapiens

<220>

<400> 183

uagaggcagc ugcuccaggu

20

<210> 184

<211> 20

<212> DNA

<213> H. sapiens

<220>

<400> 184

gcugcuccag guaaugcccu

20

<210> 185

<211> 20

<212> DNA

<213> H. sapiens

<220>

<400> 185

uuccuugcag gaacagaggu

20

<210> 186

<211> 20

<212> DNA

<213> H. sapiens

<220>

<400> 186

gccucugccc guaagcacuu

20

<210> 187

<211> 20

<212> DNA

<213> H. sapiens

<220>

<400> 187

agcaggccag guacacccgc

20

<210> 188

<211> 20

<212> DNA

<213> H. sapiens

<220>

<400> 188

gugcaguuca caacaggguu

20

<210> 189
<211> 20
<212> DNA
<213> H. sapiens

<220>

<400> 189
cucaggcggu auugcucacu

20

<210> 190
<211> 20
<212> DNA
<213> H. sapiens

<220>

<400> 190
ccugaccuaa uucaagcccg

20

<210> 191
<211> 20
<212> DNA
<213> M. musculus

<220>

<400> 191
ccugcucagu uuuaucccua

20

<210> 192
<211> 20
<212> DNA
<213> M. musculus

<220>

<400> 192
guacguaggu gccaugcagc

20

<210> 193
<211> 20
<212> DNA
<213> M. musculus

<220>

<400> 193
ccggacgcuc cucacugugg

20

<210> 194
<211> 20
<212> DNA
<213> M. musculus

<220>

<400> 194

uggcucuccu ggcaucugcc

20

<210> 195

<211> 20

<212> DNA

<213> M. musculus

<220>

<400> 195

ugcccgagcu gaagagguag

20

<210> 196

<211> 20

<212> DNA

<213> M. musculus

<220>

<400> 196

uagagggau c uugcugcug

20

<210> 197

<211> 20

<212> DNA

<213> M. musculus

<220>

<400> 197

cuugcugcug ggcucugugc

20

<210> 198

<211> 20

<212> DNA

<213> M. musculus

<220>

<400> 198

uauagcugcg guggccaggg

20

<210> 199

<211> 20

<212> DNA

<213> M. musculus

<220>

<400> 199

cagauuccug aaaggcuacu

20

<210> 200
<211> 20
<212> DNA
<213> M. musculus

<220>

<400> 200
ggagcaaguu uacugacaag

20

<210> 201
<211> 20
<212> DNA
<213> M. musculus

<220>

<400> 201
cugacaaguu caccggcuuc

20

<210> 202
<211> 20
<212> DNA
<213> M. musculus

<220>

<400> 202
cggcuucugg gauucuaacc

20

<210> 203
<211> 20
<212> DNA
<213> M. musculus

<220>

<400> 203
cugaggacca accaacucca

20

<210> 204
<211> 20
<212> DNA
<213> M. musculus

<220>

<400> 204
cuccagcuau ugagucguga

20

<210> 205
<211> 20
<212> DNA
<213> M. musculus

<220>

<400> 205
ccugaagguu gcuuuaaggg 20

<210> 206
<211> 20
<212> DNA
<213> M. musculus

<220>

<400> 206
gaaaguaugu ucuaugucu 20

<210> 207
<211> 20
<212> DNA
<213> M. musculus

<220>

<400> 207
cuagaucuca ccuaaacaug 20

<210> 208
<211> 20
<212> DNA
<213> M. musculus

<220>

<400> 208
ccuaauaaag cuggauaaga 20

<210> 209
<211> 20
<212> DNA
<213> H. sapiens

<220>

<400> 209
gcugcauggc accucuguuc 20

<210> 210
<211> 20
<212> DNA
<213> H. sapiens

<220>

<400> 210
ggcagaggc caggagcgcca 20

<210> 211
<211> 20
<212> DNA
<213> H. sapiens

<220>

<400> 211
cugaagcucg ggcagaggcc

20

<210> 212
<211> 20
<212> DNA
<213> H. sapiens

<220>

<400> 212
uccucggccu cugaagcucg

20

<210> 213
<211> 20
<212> DNA
<213> H. sapiens

<220>

<400> 213
ucuugguggc gugcucaug

20

<210> 214
<211> 20
<212> DNA
<213> H. sapiens

<220>

<400> 214
gcucagugca uccuuggcgg

20

<210> 215
<211> 20
<212> DNA
<213> H. sapiens

<220>

<400> 215
ccugcacgcu gcucagugca

20

<210> 216
<211> 20
<212> DNA
<213> H. sapiens

<220>

<400> 216
acugaagcca ucggucaccc

20

<210> 217
<211> 20
<212> DNA
<213> H. sapiens

<220>

<400> 217
cagaacucag agaacuuguc

20

<210> 218
<211> 20
<212> DNA
<213> H. sapiens

<220>

<400> 218
gaaguugguc ugaccucagg

20

<210> 219
<211> 20
<212> DNA
<213> H. sapiens

<220>

<400> 219
cccuggagau ugcaggaccc

20

<210> 220
<211> 20
<212> DNA
<213> H. sapiens

<220>

<400> 220
gggcagcccu ggagauugca

20

<210> 221
<211> 20
<212> DNA
<213> H. sapiens

<220>

<400> 221
cccuuuuaa gcaaccuacag

20

<210> 222
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Antisense compound

<400> 222
 ctcttactgt gctgtggaca 20

<210> 223
 <211> 479
 <212> DNA
 <213> M. fascicularis

<220>
 <221> misc_feature
 <222> 53, 63
 <223> n = A,T,C or G

<400> 223
 ttcattcccta gaggcagctg ctccaggaac agaggcgcca tgcagccccg ggntactcct 60
 tgnttgctgc cctgctgtca ctctggcct ctgccagtag cttcagagggc cgaggacacc 120
 tcccttcttg gcattcatgc agggctacat gcagcatgcc accaagaccg ccaaggatgc 180
 actgaccagc gtccaggagt cccaggtggc ccagcaggcc agaggctggg tgaccgatgg 240
 cttcagttcc ctgaaagact actggagcac cgtaaggac aagttatctg ggttctggga 300
 tttgaaccct gagggcaaac ccactctggc tgaggctgcc tgagacctca ataccccaag 360
 tccacctgcc tgtccatcct gccagctcct tgggtcctgc agcctccagg gctgcccctg 420
 taggttgctt aaaagggaca gtattctcag tgcctccta ccgcacctca tgctggcct 479

<210> 224
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Antisense compound

<400> 224
 ggcagccctg gaggctgcag 20

<210> 225
 <211> 427
 <212> DNA
 <213> R. norvegicus

<400> 225
 aagctcctca tcgtggccct cgtggctctc ctggcctctg cccgagctga tgaggagagag 60
 ggatccttgc tgctgggctc tatgcagggc tacatggaac aagcctccaa gacgggtccag 120
 gatgcactaa gcagcatgca ggagtctgat atagctgtgg tggccagggg ctggatggac 180

aatcgcttca aatccctgaa aggctactgg agcaagttca ctgataagtt cactggcctc 240
 tgggagctctg gccctgagga ccaactaaca acaccaactc ttgagccgtg agacctccat 300
 gttccagatg tgtctggcca tctatcctgc tgcctccgaa ggttgctcta aggggaaagt 360
 atattctcat gcctttatcc ctcccagac ctcacctaaa catgctgtcc caaataaaag 420
 ctgggaa 427

<210> 226
 <211> 306
 <212> DNA
 <213> R. norvegicus

<400> 226
 atgcagcccc gaatgctcct catcgtggcc ctctgtggctc tcctggcctc tgcccagagct 60
 gatgagggag agggatcctt gctgctgggc tctatgcagg gctacatgga acaagcctcc 120
 aagacgggtcc aggatgcact aagcagcatg caggagtctg atatatgctgt ggtggccagc 180
 aggggctgga tggacaatcg cttcaaatacc ctgaaaggct actggagcaa gttcactgat 240
 aagttcactg gcctctggga gtctggccct gaggaccaac taacaacacc aactcttgag 300
 ccgtga 306

<210> 227
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 227
 gagggagagg gacacctgct 20

<210> 228
 <211> 19
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 228
 ggaccgtctt ggaggcttg 19

<210> 229
 <211> 26
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR probe

<400> 229
 ctgggctcta tgcagggcta catgga 26

<210> 230
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR primer

<400> 230
tggttctagag acagccgcat ctt

23

<210> 231
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR primer

<400> 231
caccgacctt caccatcttg t

21

<210> 232
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR probe

<400> 232
ttgtgcagtg ccagcctcgt ctca

24

<210> 233
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 233
tgaacttatc agtgaacttg

20

<210> 234
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 234
tcagggccag actcccagag

20

<210> 235
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 235
ttggtgttgt tagttggtcc 20

<210> 236
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 236
ttggtgttgt tagttggtcc 20

<210> 237
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 237
agagccacga gggccacgat 20

<210> 238
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 238
agaggccagg agagccacga 20

<210> 239
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 239
cagctcgggc agaggccagg 20

<210> 240
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 240
tctccctcat cagctcgggc 20

<210> 241
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 241
gcccgagcagc aaggatccct 20

<210> 242
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 242
cctgcataga gcccgagcagc 20

<210> 243
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 243
tccatgtagc cctgcataga 20

<210> 244
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 244
ggaccgtcctt ggaggcttgt 20

<210> 245
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 245
agtgcacacct ggaccgtcctt 20

<210> 246
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 246
catgctgctt agtgcacacct

<210> 247
<211> 20
<212> DNA
<213> Artificial Sequence

20

<220>
<223> Antisense compound

<400> 247
cagactcctg catgctgctt

<210> 248
<211> 20
<212> DNA
<213> Artificial Sequence

20

<220>
<223> Antisense compound

<400> 248
acagctatat cagactcctg

<210> 249
<211> 20
<212> DNA
<213> Artificial Sequence

20

<220>
<223> Antisense compound

<400> 249
ctggccacca cagctatatc

<210> 250
<211> 20
<212> DNA
<213> Artificial Sequence

20

<220>
<223> Antisense compound

<400> 250
aagcgattgt ccatccagcc

<210> 251
<211> 20
<212> DNA
<213> Artificial Sequence

20

<220>
<223> Antisense compound

<400> 251
tgctccagta gcctttcagg

20

<210> 252
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 252
gaacttgctc cagtagcctt 20

<210> 253
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 253
cagtgaactt gctccagtag 20

<210> 254
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 254
cttatcagtg aacttgctcc 20

<210> 255
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 255
ccagtgaact tatcagtgaa 20

<210> 256
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 256
gaggccagtg aacttatcag 20

<210> 257
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 257
ccagaggcca gtgaacttat

<210> 258
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 258
gactcccaga ggccagtga

<210> 259
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 259
ggccagactc ccagaggcca

<210> 260
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 260
agttggtcct cagggccaga

<210> 261
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 261
gttagttggt cctcagggcc

<210> 262
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 262
tggtgtagt tggtcctcag

20

20

20

20

20

20

<210> 263
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 263
agagttggtg ttgttagttg 20

<210> 264
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 264
gctcaagagt tgggtgtgtt 20

<210> 265
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 265
cacggctcaa gagttggtgt 20

<210> 266
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 266
gtctcacggc tcaagagttg 20

<210> 267
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 267
gaacatggag gtctcacggc 20

<210> 268
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 268
tctggaacat ggaggtctca 20

<210> 269
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 269
cacatctgga acatggaggt 20

<210> 270
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 270
cagacacatc tggaacatgg 20

<210> 271
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 271
tggccagaca catctggaac 20

<210> 272
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 272
aggatagatg gccagacaca 20

<210> 273
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 273
cagcaggata gatggccaga 20

<210> 274
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 274
gaggcagcag gatagatggc 20

<210> 275
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 275
ttcggaggca gcaggataga 20

<210> 276
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 276
aaccttcgga ggcagcagga 20

<210> 277
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 277
gagcaacctt cggaggcagc 20

<210> 278
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 278
cttagagcaa ccttcggagg 20

<210> 279
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 279
tccccttaga gcaaccttcg

<210> 280
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 280
actttcccct tagagcaacc

<210> 281
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 281
atatactttc cccttagagc

<210> 282
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 282
gagaatatac tttcccctta

<210> 283
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 283
gcatgagaat atactttccc

<210> 284
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 284
aaaggcatga gaatatactt

20

20

20

20

20

20

<210> 285
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 285
ggataaaggc atgagaatat 20

<210> 286
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 286
ggagggataa aggcatgaga 20

<210> 287
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 287
gcatgtttag gtgaggtctg 20

<210> 288
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 288
gacagcatgt ttaggtgagg 20

<210> 289
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 289
ttatttgga cagcatgttt 20

<210> 290
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 290
gctttttattt gggacagcat 20

<210> 291
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 291
tcccagcttt tatttgggac 20

<210> 292
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 292
cacgatgagg agcattcggg 20

<210> 293
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 293
agggccacga tgaggagcat 20

<210> 294
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 294
ccacgagggc cacgatgagg 20

<210> 295
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 295
gagagccacg agggccacga 20

<210> 296
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 296
gccaggagag ccacgagggc 20

<210> 297
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 297
cagaggccag gagagccacg 20

<210> 298
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 298
tcgggcagag gccaggagag 20

<210> 299
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 299
tcagctcggg cagaggccag 20

<210> 300
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 300
cctcatcagc tcgggcagag 20

<210> 301
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 301
ctctccctca tcagctcggg

<210> 302
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 302
gatccctctc cctcatcagc

<210> 303
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 303
gcaaggatcc ctctccctca

<210> 304
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 304
cagcagcaag gatccctctc

<210> 305
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 305
gagcccagca gcaaggatcc

<210> 306
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 306
gcatagagcc cagcagcaag

20

20

20

20

20

20

<210> 307
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 307
gccctgcata gagcccagca 20

<210> 308
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 308
atgtagccct gcatagagcc 20

<210> 309
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 309
gttccatgta gccctgcata 20

<210> 310
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 310
ggcttggtcc atgtagccct 20

<210> 311
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 311
ttggaggctt gttccatgta 20

<210> 312
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 312
ccgtcttgga ggcttggtcc 20

<210> 313
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 313
ctggaccgtc ttggaggctt 20

<210> 314
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 314
gcatcctgga ccgtcttgga 20

<210> 315
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 315
ttagtgcatc ctggaccgtc 20

<210> 316
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 316
gctgcttagt gcatcctgga 20

<210> 317
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 317
tgcattgctc ttagtgcatc 20

<210> 318
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 318
actcctgcat gctgcttagt 20

<210> 319
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 319
atcagactcc tgcattgctgc 20

<210> 320
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 320
gctatatcag actcctgcat 20

<210> 321
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 321
ccacagctat atcagactcc 20

<210> 322
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 322
ggccaccaca gctatatcag 20

<210> 323
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 323
ctgctggcca ccacagctat

<210> 324
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 324
agcccctgct ggccaccaca

<210> 325
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 325
catccagccc ctgctggcca

<210> 326
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 326
ttgtccatcc agcccctgct

<210> 327
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 327
attgtccatc cagcccctgc

<210> 328
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 328
agcgattgtc catccagccc

20

20

20

20

20

20

<210> 329
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 329
tttgaagcga ttgtccatcc 20

<210> 330
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 330
agggatttga agcgattgtc 20

<210> 331
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 331
ctttcagggga tttgaagcga 20

<210> 332
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 332
gtagcctttc agggatttga 20

<210> 333
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 333
ctccagtagc ctttcagggga 20

<210> 334
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 334
acttgctcca gtagcctttc

<210> 335
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 335
agtgaacttg ctccagtagc

<210> 336
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 336
ttatcagtga acttgctcca

<210> 337
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 337
gccagtgaac ttatcagtga

<210> 338
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 338
cagaggccag tgaacttata

<210> 339
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 339
actcccagag gccagtgaac

20

20

20

20

20

20

<210> 340
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 340
gccagactcc cagaggccag 20

<210> 341
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 341
tagttggtcc tcagggccag 20

<210> 342
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 342
gttggttagtt ggtcctcagg 20

<210> 343
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 343
aagagttggt gttggttagtt 20

<210> 344
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 344
ggctcaagag ttggtggtgt 20

<210> 345
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 345
tcacggctca agagttggtg 20

<210> 346
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 346
ggaggcttgt tccatgtagc 20

<210> 347
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 347
tcagggattt gaagcgattg 20

<210> 348
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 348
cagtagcctt tcagggattt 20

<210> 349
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 349
atggaggtct cacggctcaa 20

<210> 350
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 350
tagatggcca gacacatctg 20

<210> 351
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Antisense compound

<400> 351
 ttgggacagc atgttttaggt 20

<210> 352
 <211> 435
 <212> DNA
 <213> M. auratus

<400> 352
 actcctattg ttgccctctt ggcactcctg gcctctgccc gaagctaattg aggttagaggg 60
 gtccttgctg ctgggctctg tgcagggcta catggaacag gccaccaaga aggtccagga 120
 tgcgctaacc agcatgcaaa agtctgaggt ggctgtgcgg gccagggact ggatggacgg 180
 tggcttcacc tccctgaaaa gctactggag cacatttact gacacggtct ccagcctctg 240
 ggattcttcc cccaaggccc. taccagcccc agctactgag ccttgagacc tctacgttcc 300
 aaatgtgctt gtgtgtccat cctgctggcc tctgggcctg ggtggcccct gaagggtgtt 360
 tgaaagggaa agtattgtca tgttttcac cctccccaga agtcacctaa acatgctgtc 420
 ctaaataaag ctgga 435

<210> 353
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 353
 cgctaaccag catgcaaaag 20

<210> 354
 <211> 18
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 354
 caccgtccat ccagtccc 18

<210> 355
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
<223> PCR probe

<400> 355
ctgaggtggc tgtgcggggcc 20

<210> 356
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR primer

<400> 356
ccagcctcgc tccgg 15

<210> 357
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR primer

<400> 357
ccaatacggc caaatccg 18

<210> 358
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR probe

<400> 358
acgcaatggt gaaggtcggc g 21

<210> 359
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 359
tgccaagagg gcaacaatag 20

<210> 360
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 360
aggagtgcca agagggcaac 20

<210> 361
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 361
gatgccagga gtgccaagag 20

<210> 362
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 362
ggcagatgcc aggagtgcc 20

<210> 363
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 363
ctctacctca ttagcttcgg 20

<210> 364
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 364
ccctctacct cattagcttc 20

<210> 365
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 365
gacccctcta cctcattagc 20

<210> 366
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 366
gcaaggaccc ctctacctca

<210> 367
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 367
cagcagcaag gacccctcta

<210> 368
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 368
gagcccagca gcaaggaccc

<210> 369
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 369
tgcacagagc ccagcagcaa

<210> 370
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 370
agccctgcac agagcccagc

<210> 371
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 371
catgtagccc tgcacagagc

20

20

20

20

20

20

<210> 372
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 372
tggtccatgt agccctgcac 20

<210> 373
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 373
tggcctgttc catgtagccc 20

<210> 374
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 374
accttcttgg tggcctgttc 20

<210> 375
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 375
gcgcacccctg gaccttcttg 20

<210> 376
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 376
tgctgggttag cgcacccctgg 20

<210> 377
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 377
ttgcatgctg gtttagcgcat 20

<210> 378
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 378
gacttttgca tgctgggttag 20

<210> 379
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 379
cctcagactt ttgcatgctg 20

<210> 380
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 380
agccacctca gacttttgca 20

<210> 381
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 381
cgcacagcca cctcagactt 20

<210> 382
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 382
ccagtccttg gcccgcacag 20

<210> 383
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 383
gtccatccag tccctggccc 20

<210> 384
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 384
ccgtccatcc agtccctggc 20

<210> 385
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 385
gccaccgtcc atccagtccc 20

<210> 386
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 386
gtgaagccac cgtccatcca 20

<210> 387
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 387
ggaggtgaag ccaccgtcca 20

<210> 388
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 388
tgctccagta gcttttcagg 20

<210> 389
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 389
gtaaatgtgc tccagtagct 20

<210> 390
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 390
tgtcagtaaa tgtgctccag 20

<210> 391
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 391
tggagaccgt gtcagtaaat 20

<210> 392
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 392
ggctggagac cgtgtcagta 20

<210> 393
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 393
cagaggctgg agaccgtgtc 20

<210> 394
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 394
atcccagagg ctggagaccg 20

<210> 395
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 395
gaagaatccc agaggctgga 20

<210> 396
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 396
tctcaaggct cagtagctgg 20

<210> 397
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 397
tagaggtctc aaggctcagt 20

<210> 398
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 398
gaacgtagag gtctcaaggc 20

<210> 399
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 399
catttggaac gtagaggtct

<210> 400
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 400
caagcacatt tggaacgtag

<210> 401
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 401
tggacacaca agcacatttg

<210> 402
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 402
caggatggac acacaagcac

<210> 403
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 403
ggccagcagg atggacacac

<210> 404
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 404
gccagaggc cagcaggatg

20

20

20

20

20

20

<210> 405
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 405
cctttcaaac aaccttcagg 20

<210> 406
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 406
ggacagcatg tttaggtgac 20

<210> 407
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 407
cttggtggcc tgttccatgt 20

<210> 408
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 408
gttagcgcat cctggacctt 20

<210> 409
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 409
tggcccgcac agccacctca 20

<210> 410
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 410
gaccgtgtca gtaaattgtgc 20

<210> 411
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 411
aagagggcaa caataggagt 20

<210> 412
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 412
gtgccaagag ggcaacaata 20

<210> 413
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 413
atgccaggag tgccaagagg 20

<210> 414
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 414
cttcgggcag atgccaggag 20

<210> 415
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 415
cattagcttc gggcagatgc 20

<210> 416
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 416
agagcccagc agcaaggacc 20

<210> 417
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 417
gtggcctgtt ccatgtagcc 20

<210> 418
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 418
tcttggtggc ctgttccatg 20

<210> 419
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 419
gaccttcttg gtggcctgtt 20

<210> 420
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 420
tcctggacct tcttggtggc 20

<210> 421
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 421
ggtttagcgca tcctggacct

<210> 422
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 422
atgctgggta gcgcatacctg

<210> 423
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 423
tttgcatagct ggtttagcgca

<210> 424
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 424
agactttttgc atgctgggta

<210> 425
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 425
acctcagact tttgcatagct

<210> 426
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 426
cagccacctc agactttttgc

20

20

20

20

20

20

<210> 427
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 427
ccgcacagcc acctcagact 20

<210> 428
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 428
ctggcccgca cagccacctc 20

<210> 429
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 429
agtccctggc ccgcacagcc 20

<210> 430
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 430
catccagtcc ctggcccgca 20

<210> 431
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 431
agccaccgtc catccagtcc 20

<210> 432
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 432
ggtgaagcca ccgtccatcc

<210> 433
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 433
agggaggtga agccaccgtc

<210> 434
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 434
ttttcagggg ggtgaagcca

<210> 435
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 435
agtagctttt cagggaggtg

<210> 436
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 436
aaatgtgctc cagtagcttt

<210> 437
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 437
tcagtaaatg tgctccagta

20

20

20

20

20

20

<210> 438
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 438
ccgtgtcagt aaatgtgctc 20

<210> 439
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 439
ggagaccgtg tcagtaaag 20

<210> 440
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 440
aggctggaga ccgtgtcagt 20

<210> 441
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 441
cccagaggct ggagaccgtg 20

<210> 442
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 442
agaatcccag aggctggaga 20

<210> 443
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 443
agaggtctca aggctcagta

<210> 444
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 444
aacgtagagg tctcaaggct

<210> 445
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 445
tttggaaacgt agaggtctca

<210> 446
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 446
gcacatttgg aacgtagagg

<210> 447
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 447
cacaagcaca tttggaacgt

<210> 448
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 448
ggacacacaa gcacatttgg

20

20

20

20

20

20

<210> 449
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 449
aggatggaca cacaagcaca 20

<210> 450
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 450
ccagcaggat ggacacacaa 20

<210> 451
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 451
agaggccagc aggatggaca 20

<210> 452
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 452
ggcccagagg ccagcaggat 20

<210> 453
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 453
acccaggccc agaggccagc 20

<210> 454
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 454
gggccaccca ggcccagagg 20

<210> 455
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 455
ctttcccttt caaacaacct 20

<210> 456
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 456
caatactttc cctttcaaac 20

<210> 457
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 457
catgacaata ctttcccttt 20

<210> 458
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 458
gaaaacatga caatactttc 20

<210> 459
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 459
gggatgaaaa catgacaata 20

<210> 460
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 460
catgtttagg tgactttctgg 20

<210> 461
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 461
gacagcatgt ttaggtgact 20

<210> 462
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 462
tttaggacag catgtttagg 20

<210> 463
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 463
ctttattttag gacagcatgt 20

<210> 464
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense compound

<400> 464
tccagcttta tttaggacag 20

<210> 465
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> antisense Oligonucleotide

<400> 465
cgagaggcgg acgggaccg 19

<210> 466
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> antisense Oligonucleotide

<400> 466
cgagaggcgg acgggaccgt t 21

<210> 467
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> complement Oligonucleotide

<400> 467
ttgctctccg cctgccctgg c 21

<210> 468
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> complement Oligonucleotide

<400> 468
gctctccgcc tgccttggc 19